

# TARGET E

Name \_\_\_\_\_ Date \_\_\_\_\_

Find surface area and volume for each sphere. Round answers to the nearest hundredth!

1.  $r = 8 \text{ cm}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

2.  $r = 2\sqrt{2} \text{ ft}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

3.  $r = \pi \text{ cm}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

4.  $d = 10 \text{ in.}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

5.  $d = 6\pi \text{ m}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

6.  $d = 16 \text{ yd}$

SA = \_\_\_\_\_

V = \_\_\_\_\_

7. Find the radius of a sphere if the surface area of a hemisphere is  $192\pi$  square centimeters.

## TARGET E (ANSWERS)

1.  $SA = 804.25 \text{ cm}^2$

$V = 2144.66 \text{ cm}^3$

2.  $SA = 100.53 \text{ ft}^2$

$V = 94.78 \text{ ft}^3$

3.  $SA = 615.75 \text{ cm}^2$

$V = 1436.76 \text{ cm}^3$

4.  $SA = 314.16 \text{ in}^2$

$V = 523.60 \text{ in}^3$

5.  $SA = 113.10 \text{ m}^2$

$V = 113.10 \text{ m}^3$

6.  $SA = 804.25 \text{ yd}^2$

$V = 2144.66 \text{ yd}^3$

7.  $6.93 \text{ cm}$